PLACE VALUE

Name:

Assessment Criteria: Use understanding of place value to multiply and divide whole number and decimals by 10, 100, 1000 and explain effect.

1. Chris writes '2 x 10 = 20, and 3 x 10 = 30, so 2.5 x 10 = 2.50'. Is Chris correct? Explain your answer.

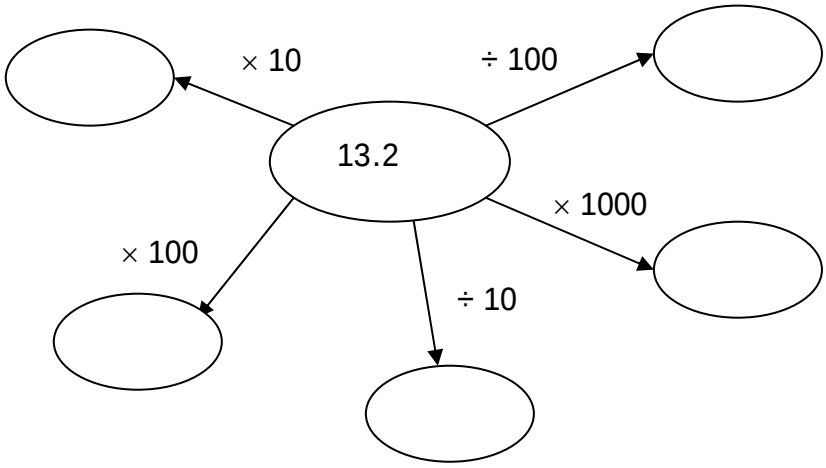
2. Hazel says, '*when you multiply a number by 100, the digits move two places to the left*'.

   Tim says, '*when you multiply a number by 100, the decimal point jumps two places to the right*'.

   Who is correct?

   _____

3. Complete the spider diagram



4. Fill in the gaps in the following calculations:

   $3 \div 10 =$ _____ $\qquad 3 \div$ _____ $= 0.03$

   $0.3 \times 10 =$ _____ $\qquad 0.3 \times$ _____ $= 300$

   $0.3 \div 10 =$ _____ $\qquad 0.3 \div$ _____ $= 0.003$

Overall, I think my success level is:	Low ○ ○ ○ ○ High

Q	PLACE VALUE	☺	☹
	I can multiply whole numbers by 10, 100 and 1000		
	I can divide whole numbers by 10, 100 and 1000		
	I can multiply decimals by 10, 100 and 1000		
	I can divide decimals by 10, 100 and 1000		
	I understand the effect of multiplying and dividing by 10, 100 and 1000		
	I can draw simple conclusions of my own and give an explanation of my reasoning		
	I can check results, considering whether these are reasonable		

I need to practise …